

*"Leadership for a Healthy Arizona"*  
**Arizona Dept of Health Services**

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## **MASTERS DEGREE INTERN PROJECTS**

The **Arizona Department of Health Services (ADHS)** is one of the largest departments in Arizona State Government, with a budget of more than \$1 billion and a workforce of more than 1,800 employees. The ADHS is the state's lead public health agency, responsible for protecting, maintaining and improving the health of all Arizonans.

The **Bureau of Emergency Medical Services and Trauma System** (Bureau) is the lead agency for the development of the trauma and emergency medical services system for the State of Arizona. A fundamental aspect of our activity is analyzing data obtained from trauma centers, emergency departments and hospitals to evaluate the incidence, nature and outcomes of illness and injury in order to understand and describe their public health impact. Our staff have published articles and abstracts in a number of peer-reviewed journals and presented at state and national meetings. We also develop public-health articles and resources for education of stakeholders.

**INTERN DUTIES AND RESPONSIBILITIES:** A successful outcome to the project rests entirely with the intern assigned the project. Bureau staff will provide assistance in the analysis of data and will serve as EMS and trauma system content experts as needed.

Each intern will have a Bureau staff member assigned to follow progress of the project. The intern will be required to attend weekly meetings with that staff member to analyze progress and identify additional resources if needed. Interns will be required to read and sign Bureau and Departmental confidentiality and publication requirements. If required, the Bureau can arrange for a work area and a desktop computer. Projects that are appropriate for submission may require the candidate to maintain communication and agree to supplemental revision requirements as requested beyond the project period.

**REQUIRED KNOWLEDGE AND SKILLS:** Intern candidates must have a background in public health/statistics and be knowledgeable of SAS statistical software.

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### **PROJECT 1: AN ANALYSIS OF THE TRANSPORT DESTINATION OF INJURY PATIENTS IN ARIZONA.**

**Goal:** After reviewing a variety of databases, characterize the receiving facility, injury location, mechanism of injury, injury severity, length of stay, injury date and time and mode of transport of injured Arizonans. This will serve as baseline data for future analysis of under/over triage as the Arizona trauma system expands.

**Data Sources:**

- Arizona State Trauma Registry
- Arizona Hospital Discharge Database
- Arizona Emergency Department Database

**Output:**

- Develop a report, in typical format, which describe results statewide and by the four EMS Regions.
- Develop a Power Point Presentation summarizing the results.

**Project Deadline:** Open Until Filled

**Start:** ASAP

**End:** Six weeks after beginning

**COMPENSATION:** Unpaid

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## PROJECT 2: AN IN-DEPTH ANALYSIS OF BICYCLE INJURY AND HELMET USE IN ARIZONA

**Goal:** After reviewing a number of databases, evaluate the magnitude, mechanism, distribution, and outcome of bicycle related injuries in the State of Arizona. Identify the difference in characteristics and the severity of head and facial injuries between helmeted and non-helmeted bicyclists, and whether the helmet use contributed to a decrease in injury. Analyze other factors related to bicycle injuries such as, receiving facility, injury location, mechanism of injury, injury severity, length of stay, injury date and time and mode of transport. Additionally, characterize immediate, short and long term financial and social costs and charges associated with bicycle injury by reviewing Arizona and National cost/charge data sources.

### Data Sources:

- Arizona State Trauma Registry
- Arizona Hospital Discharge Database
- Arizona Emergency Department Database
- CDC Databases
- AHRQ Databases
- Literature Search

### Output:

- Develop two reports, one for all ages, one for pediatric, in typical format, which describe results statewide and by the four EMS Regions.

**Project Deadline:** Open Until Filled

**Start:** ASAP

**End:** Six weeks after beginning

**COMPENSATION:** Unpaid

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### HOW TO APPLY:

Intern candidates will submit a one or two page letter of interest (E-mail is fine) that:

- briefly describes the candidates educational background
- describes the candidates professional aspirations
- describes a draft timeline for completing the project
- contains complete contact information

### SUBMIT LETTERS OF INTEREST TO:

Terry Mullins, Chief  
Bureau of EMS and Trauma System  
Arizona Department of Health Services  
150 N. 18<sup>th</sup> Avenue, Suite 540  
Phoenix Arizona, 85007-3248  
[terry.mullins@azdhs.gov](mailto:terry.mullins@azdhs.gov)